

PATENT ABSTRACTS OF JAPAN

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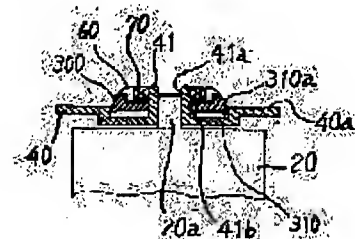
(54) AUTOMATIC CENTERING MECHANISM OF DISK CLAMP MECHANISM

(57)Abstract:

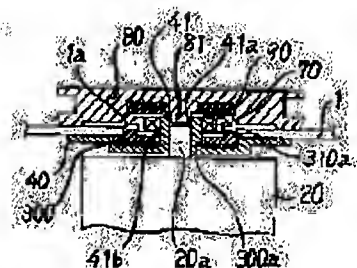
PROBLEM TO BE SOLVED: To contrive thin formation of a turntable by eliminating a compression spring for upwardly energizing a cone.

SOLUTION: The turntable 40 is equipped with the cone 300 formed of a magnetic substance having a holding piece 60 engaged with the outer circumferential surface 41b of a shaft body 41 and equipped with a disk press-fixing magnet 70 on the upper surface and a slant surface 310a fitted freely vertically slidably to the outer circumferential surface of the shaft body for the purpose of guiding a center hole 1a of a disk 1. At the time of press-fixing the disk on a disk mounting surface 40a, the cone 300 guides the center hole 1a of the disk 1 onto the slant surface 310a, and is also upwardly energized with attracting force of the disk press-fixing magnet 70 by separating the cone 300 from the holding piece 60, and by this energization, the disk is centered coaxially with the rotary center of the shaft body 41. A gap between the inner circumferential surface 300a of the cone 300 and the outer circumferential surface of the shaft body 31, which are slid on each other is limited to $\pm 1/2$ of a tolerance of a center hole diameter based on the specification of the optical disk medium.

(a)



(b)



LEGAL STATUS

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